

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A microcapsule formulation comprising:
microcapsules of an average diameter of from 1 to 100 μm , having a core of a hydrophobic material and

a capsule shell of an addition polymer containing in copolymerized form at least 10% by weight of cationogenic monomer(s) and/or polyethylenically unsaturated monomer(s) whose unsaturated sites are connected via successive chemical bonds of which at least one bond is acid-hydrolyzable,

~~wherein the microcapsules are obtainable by polymerizing a monomer mixture constituting the capsule shell in the oil phase of a stable oil-in-water emulsion~~
wherein the microcapsules are obtained by dispersing an oil phase in an aqueous medium to obtain a stable oil-in-water emulsion, the oil phase containing the hydrophobic material and a monomer mixture constituting the capsule shell, polymerizing the monomer mixture in the oil phase of the stable oil-in-water emulsion, wherein the polymer produced from the polymerization is soluble neither in the oil phase nor in the water phase of the oil-in-water emulsion and migrates to the interface between the oil droplets and the water phase and ultimately encases the hydrophobic material.

Claim 2 (Currently Amended): A The microcapsule formulation ~~as claimed in~~ of claim 1, wherein said cationogenic monomer(s) comprise aminoalkyl (meth)acrylates and/or aminoalkyl(meth)acrylamides.

Claim 3 (Currently Amended): ~~A~~ The microcapsule formulation ~~as claimed in~~
of claim 1, wherein said polyethylenically unsaturated monomer(s) having an acid-
hydrolyzable bond comprise alkylenebis(meth)acrylamides.

Claim 4 (Currently Amended): ~~A~~ The microcapsule formulation ~~as claimed in~~
of claim 1, wherein said hydrophobic material comprises at least one fragrance or
perfume.

Claim 5 (Currently Amended): ~~A~~ The microcapsule formulation ~~as claimed in~~
of claim 1, wherein said hydrophobic material comprises at least one constituent
selected from the group consisting of bleach activators, foam suppressants, optical
brighteners, and enzymes.

Claim 6 (Currently Amended): ~~A~~ The microcapsule formulation ~~as claimed in~~
of claim 1, in spray-dried form.

Claim 7 (Previously Presented): A method for making a laundry detergent for
textiles or a cleaning product for nontextile surfaces, skin or hair comprising adding
the microcapsule formulation of claim 1 to a laundry detergent or cleaning product.

Claim 8 (Currently Amended): A laundry detergent or cleaning product
composition comprising microcapsules having
a core of a hydrophobic material, which comprises at least one fragrance or
perfume, and

a shell of an addition polymer containing in copolymerized form at least 10% by weight of anionogenic monoethylenically unsaturated monomer(s) and/or polyethylenically unsaturated monomer(s) whose unsaturated sites are connected via successive chemical bonds of which at least one bond is base-hydrolyzable,

the weight proportion of the hydrophobic core material with respect to the entire capsule being from 50 to 98%,

wherein the microcapsules are obtained by dispersing an oil phase in an aqueous medium to obtain a stable oil-in-water emulsion, the oil phase containing the hydrophobic material and a monomer mixture constituting the capsule shell, polymerizing the monomer mixture in the oil phase of the stable oil-in-water emulsion, wherein the polymer produced from the polymerization is soluble neither in the oil phase nor in the water phase of the oil-in-water emulsion and migrates to the interface between the oil droplets and the water phase and ultimately encases the hydrophobic material.

Claim 9 (Currently Amended): ~~A composition as claimed in~~ The composition of claim 8, wherein said anionogenic monomer(s) comprise ethylenically unsaturated C₃-C₆ monocarboxylic acids or C₄-C₆ dicarboxylic acids or monoesters or intramolecular anhydrides of ethylenically unsaturated C₄-C₆ dicarboxylic acids.

Claim 10 (Currently Amended): ~~A composition as claimed in~~ The composition of claim 8, wherein said polyethylenically unsaturated monomer(s) having a base-hydrolyzable bond comprise anhydrides of monoethylenically unsaturated C₃-C₆ monocarboxylic acids.

Claim 11 (Currently Amended): A The composition as claimed in of claim 8, further comprising at least one constituent selected from the group consisting of surfactant(s) and/or builder(s), or both.

Claim 12 (Previously Presented): The composition of claim 8, wherein said fragrance comprises one or more compounds selected from the group consisting of orange oil, lemon oil, rose extract, lavender, musk, patchouli, balsam essence, sandalwood oil, pine oil, and cedar oil.

Claim 13 (Currently Amended): The composition of claim 8, wherein said fragrance comprises one or more compounds selected from the group consisting of 7-acetyl-1,2,3,4,5,6,7,8-octahydro-1,1,6,7-tetramethyl-naphthalene, α -ionone, β -ionone, γ -ionone α -isomethylionone, methylcedrylone, methyl dihydrojasmonate, methyl 1,6,10-trimethyl-2,5,9-cyclododecatrien-1-yl ketone, 7-acetyl-1,1,3,4,4,6-hexamethyltetralin, 4-acetyl-6-tert-butyl-1,1-dimethylindane, hydroxyphenylbutanone, benzophenone, methyl β -naphthyl ketone, 6-acetyl-1,1,2,3,3,5-hexamethylindane, 5-acetyl-3-isopropyl-1,1,2,6-tetramethylindane, 1-dodecanal, 4-(4-hydroxy-4-methylpentyl)-3-cyclohexene-1-carboxaldehyde, 7-hydroxy-3,7-dimethyloctanal, 10-undecen-1-al, isohexenylcyclohexylcarboxaldehyde, formyltricyclodecane, condensation products of hydroxycitronellal and methyl anthranilate, condensation products of hydroxycitronellal and indole, condensation products of phenylacetaldehyde and indole, 2-methyl-3-(para-tert-butylphenyl)propionaldehyde, ethylvanillin, heliotropin, hexylcinnamaldehyde, amylcinnamaldehyde, 2-methyl-2-(isopropylphenyl)propionaldehyde, coumarin, γ -decalactone, cyclopentadecanolide, 16-hydroxy-9-hexadecenoic acid lactone, 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-

hexamethyl-cyclopenta- γ -2-benzopyran, β -naphthol methyl ether, ambroxane, dodecahydro-3a,6,6,9a-tetramethylnaphtho[2,1b]furan, cedrol, 5-(2,2,3-trimethylcyclopent-3-enyl)-3-methylpentan-2-ol, 2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol, caryophyllene alcohol, tricyclodecenyl propionate, tricyclodecenyl acetate, benzyl salicylate, cedryl acetate, and tert-butylcyclohexyl acetate.

Claim 14 (Previously Presented): The composition of claim 8, wherein said fragrance comprises one or more compounds selected from the group consisting of Peru balsam, olibanum resinoid, styrax, labdanum resin, nutmeg, cassia oil, benzoin resin, coriander, lavandin, phenylethyl alcohol, terpineol, linalool, linalyl acetate, geraniol, nerol, 2-(1,1-dimethylethyl)cyclo-hexanol acetate, benzyl acetate, and eugenol.

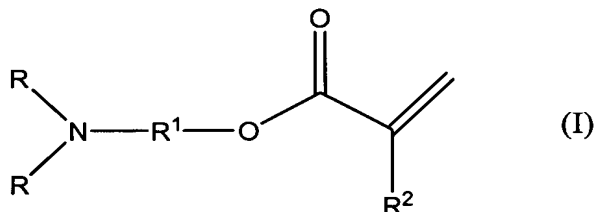
Claim 15 (Previously Presented): The microcapsule formulation of claim 1, wherein said hydrophobic material comprises one or more compounds selected from the group consisting of orange oil, lemon oil, rose extract, lavender, musk, patchouli, balsam essence, sandalwood oil, pine oil, cedar oil, Peru balsam, olibanum resinoid, styrax, labdanum resin, nutmeg, cassia oil, benzoin resin, coriander, lavandin, phenylethyl alcohol, terpineol, linalool, linalyl acetate, geraniol, nerol, 2-(1,1-dimethylethyl)cyclo-hexanol acetate, benzyl acetate, and eugenol.

Claim 16 (Previously Presented): The microcapsule formulation of claim 1, wherein said hydrophobic material comprises one or more compounds selected from the group consisting of 7-acetyl-1,2,3,4,5,6,7,8-octahydro-1,1,6,7-tetramethyl-

naphthalene, α -ionone, β -ionone, γ -ionone α -isomethylionone, methylcedrylone, methyl dihydrojasmonate, methyl 1,6,10-trimethyl-2,5,9-cyclododecatrien-1-yl ketone, 7-acetyl-1,1,3,4,4,6-hexamethyltetralin, 4-acetyl-6-tert-butyl-1,1-dimethylindane, hydroxyphenylbutanone, benzophenone, methyl β -naphthyl ketone, 6-acetyl-1,1,2,3,3,5-hexamethylindane, 5-acetyl-3-isopropyl-1,1,2,6-tetramethylindane, 1-dodecanal, 4-(4-hydroxy-4-methylpentyl)-3-cyclohexene-1-carboxaldehyde, 7-hydroxy-3,7-dimethyloctanal, 10-undecen-1-al, isohexenylcyclohexylcarboxaldehyde, formyltricyclodecane, condensation products of hydroxycitronellal and methyl anthranilate, condensation products of hydroxycitronellal and indole, condensation products of phenylacetaldehyde and indole, 2-methyl-3-(para-tert-butylphenyl)propionaldehyde, ethylvanillin, heliotropin, hexylcinnamaldehyde, amylcinnamaldehyde, 2-methyl-2-(isopropylphenyl)propionaldehyde, coumarin, γ -decalactone, cyclopentadecanolide, 16-hydroxy-9-hexadecenoic acid lactone, 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethyl-cyclopenta- γ -2-benzopyran, β -naphthol methyl ether, ambroxane, dodecahydro-3a,6,6,9a-tetramethylnaphtho[2,1b]furan, cedrol, 5-(2,2,3-trimethylcyclopent-3-enyl)-3-methylpentan-2-ol, 2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol, caryophyllene alcohol, tricyclodecenyl propionate, tricyclodecenyl acetate, benzyl salicylate, cedryl acetate, and tert-butylcyclohexyl acetate.

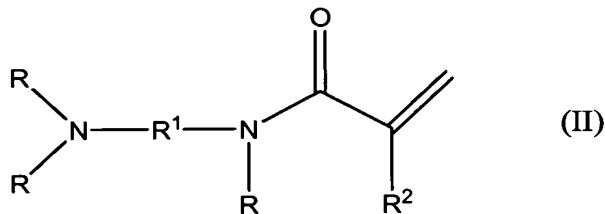
Claim 17 (Previously Presented): The microcapsule formulation of claim 1, wherein said capsule shell comprises one or more cationogenic monomer(s) selected from the group consisting of aminoalkyl (meth)acrylate(s) and aminoalkyl(meth)acrylamide(s).

Claim 18 (Currently Amended): The microcapsule formulation of claim 1, wherein said capsule shell comprises one or more cationogenic monomer(s) of formula I:



where the radicals R independently of one another are hydrogen, C₁-C₈ alkyl, C₁-C₈ hydroxyalkyl or polyoxy(C₁-C₄)alkylene of 2 to 500 alkylene units or two radicals R together with the nitrogen atom to which they are attached form a 5- to 8-membered, ~~preferably saturated~~, ring; R¹ is C₁-C₁₈ alkylene, ~~preferably C₂-C₆ alkylene~~, and R² is hydrogen or methyl.

Claim 19 (Currently Amended): The microcapsule formulation of claim 1, wherein said cationogenic monomer is selected from the group consisting of at least one compound of formula II:



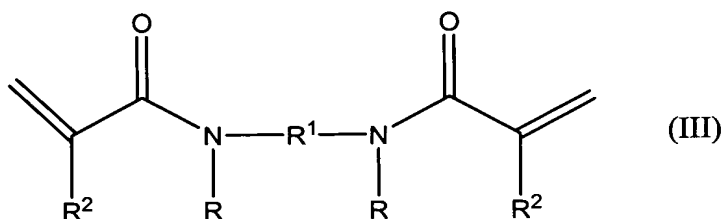
where R, R¹ and R² are as defined ~~above~~ in claim 1.

Claim 20 (Previously Presented): The microcapsule formulation of claim 1, wherein said capsule shell comprises one or more cationogenic monomer(s) selected from the group consisting of N-dimethylaminopropylmethacrylamide, N,N-

dimethylaminoethyl methacrylate, N,N-dimethylaminoethyl acrylate, 2-tert-butylaminoethyl methacrylate, 2-N-morpholinoethyl methacrylate, 2-N-morpholinoethyl acrylate, and 3-dimethylaminoneopentyl acrylate.

Claim 21 (Previously Presented): The microcapsule formulation of claim 1, wherein said capsule shell comprises at least one polyethylenically unsaturated monomer(s) having an acid-hydrolyzable bond which is an alkylenebis(meth)acrylamide(s).

Claim 22 (Currently Amended): The microcapsule formulation of claim 1, wherein said capsule shell comprises at least one polyethylenically unsaturated monomer(s) having an acid-hydrolyzable bond which is an alkylenebis(meth)acrylamide(s) of the formula III:



where R, R¹ and R² are as defined ~~above~~ in claim 1.

Claim 23 (Previously Presented) The microcapsule formulation of claim 1, wherein said capsule shell comprises at least one polyethylenically unsaturated monomer(s) having an acid-hydrolyzable bond which is selected from the group consisting of N,N'-methylenebisacrylamide and N,N'-hexamethylenebismethacrylamide.

Claim 24 (Currently Amended): A method for pH-mediated release of an encapsulated material comprising:

exposing microcapsules to a pH of about 2 to 7,
wherein said microcapsules have an average diameter of from 1 to 100 μm ,
comprise a core of a hydrophobic material and
a capsule shell of an addition polymer containing in copolymerized form at least 1% by weight of cationogenic monomer(s) and/or polyethylenically unsaturated monomer(s) whose unsaturated sites are connected via successive chemical bonds of which at least one bond is acid-hydrolyzable.

Claim 25 (Currently Amended): A method for pH-mediated release of an encapsulated material comprising:

exposing microcapsules to a pH of about 8 to 14,
wherein said microcapsules have an average diameter of from 1 to 100 μm ,
comprise a core of a hydrophobic material and
a capsule shell of an addition polymer containing in copolymerized form at least 1% by weight of ~~cationogenic~~ anionogenic monomer(s) and/or polyethylenically unsaturated monomer(s) whose unsaturated sites are connected via successive chemical bonds of which at least one bond is base-hydrolyzable.

Claim 26 (New): The microcapsule formulation of claim 18, wherein two radicals R together with the nitrogen atom to which they are attached form a saturated 5- to 8-membered ring.

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Claim 27 (New): The microcapsule formulation of claim 18, wherein R¹ is
C₂-C₆ alkylene.